

**I claim:**

1. An apparatus for locating a receiver of radio communication, comprising:
  - a system control unit for controlling the apparatus;
  - 5 a direction detection unit, using a heading direction of a vehicle or the apparatus as a standard direction for judging a direction of the receiver;
  - a longitude-and-latitude detection unit, receiving a satellite's signals by applying a GPS to obtain longitude and latitude data of a user;
  - 10 an operation unit, controlled by the system control unit for receiving signals from the direction detection unit, the longitude-and-latitude detection unit and a following data transmission unit;
  - a display unit for displaying display data from the operation unit;
  - the data transmission unit for enabling the operation unit to transform the longitude and latitude data of the user and communication data of
  - 15 an opposite user and for forwarding data to a radio communication interface unit of the opposite user through a radio communication interface unit of the user;
  - the radio communication interface unit for establishing radio connection
  - 20 with a radio communication device;
  - a voice transmission unit for transforming voice signals of a voice procession unit and forwarding the transformed voice signals to the opposite user through the radio communication interface unit and for transforming incoming voice signals provided by the radio
  - 25 communication interface unit into signals acceptable to the voice procession unit;



the voice procession unit for processing the voice signals from a microphone or the voice transmission unit;

a human-machine interface for the user to input settings of the apparatus;  
the microphone for the user to input voice; and

a speaker for outputting the voice signals of the voice procession unit;

wherein, by providing all the units above, the user is able to locate quickly and easily a position of the opposite user.

2. The apparatus for locating a receiver of radio communication according to claim 1, wherein said data transmission unit includes an FSK modulation unit and a mix unit for transforming digital data into voice-frequency signals to facilitate transmission of said radio transmission interface unit.

3. The apparatus for locating a receiver of radio communication according to claim 1, wherein said direction detection unit is selected from a gyroscope, an electronic compass, and a direction detection element that utilizes GPS Doppler effect.

4. The apparatus for locating a receiver of radio communication according to claim 1, wherein said radio communication device is selected from a GSM system, a DCS system, a radio intercom and a device for radio communication.

5. The apparatus for locating a receiver of radio communication according to claim 1, wherein said voice procession unit is able to eliminate noises, echoes and unexpected voices.

6. The apparatus for locating a receiver of radio communication according to claim 1, wherein said human-machine interface is a key-type or touch screen-type input device.